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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/910,731	07/24/2001	Mahmoud Abdel-Rahman	10010911-1	1791
		07/28/2003			
		ECHNOLOGIES, INC.		EXAMINER	
		perty Administration		DOLE TO	ACTIBLI
Legal Department, DL429				DOLE, TIMOTHY J	
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	Loveland, CO 80537-0599			ART ONT	PAPER NUMBER
		·		2858	•
				DATE MAILED: 07/28/2003	
			DATE MAILLD. 07/20/2003	DATE MAILLD. 07/20/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del>		Application No.	licant(s)				
		09/910,731					
4	Office Action Summary	Examiner	Art Unit	<u></u>			
	-	Timothy J. Dole	2858				
-	- The MAILING DATE of this communication app						
Period for	• •						
THE N - Extens after S - If the p - If NO p - Failure - Any re	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.1 BIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period to to reply within the set or extended period for reply will, by statute ply received by the Office later than three months after the mailing the patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may within the statutory minimum of will apply and will expire SIX (6) Notes the application to become	a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this communionable ABANDONED (35 U.S.C. § 133).	cation.			
1)⊠	Responsive to communication(s) filed on 19.	June 2003 .					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.					
3) 🗌	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition	on of Claims	Ex parte Quayle, 1000	O.B. 11, 400 O.G. 210.				
4) 🖾	Claim(s) <u>1-5,7-18 and 20-22</u> is/are pending in	the application.					
4	a) Of the above claim(s) is/are withdra	wn from consideration.					
5)🖂	Claim(s) <u>1-5,7-18 and 20</u> is/are allowed.						
6)🖾	6)⊠ Claim(s) <u>21 and 22</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
• —	Claim(s) are subject to restriction and/o	or election requirement.					
· · · _	on Papers						
•	9) The specification is objected to by the Examiner.						
10)1	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
11)□ T	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
,	If approved, corrected drawings are required in reply to this Office action.						
12)∐ T	12) The oath or declaration is objected to by the Examiner.						
Priority u	nder 35 U.S.C. §§ 119 and 120						
13)[	3)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)[	☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority document	s have been received.					
	<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).</li> </ul>						
14) 🗌 A							
•	a) ☐ The translation of the foreign language provisional application has been received.  5)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment	(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>1</u>	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)				

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 21 is rejected under 35 U.S.C. 102(b) as being anticipated by Gabor.

Gabor discloses an electronic circuit comprising: a first electrode (column 2, lines 58-60) for electrical connection to an ionization detector system (column 2, lines 58-66); a second electrode (column 2, lines 58-60) for electrical connection to the ionization system; a transformer (fig. 1 (2)) electrically connected to the first electrode and to the second electrode for creating a spark between the first electrode and the second electrode; a DC voltage source (column 2, lines 29-31) electrically connected to a primary portion (fig. 1 (1)) of the transformer; and a current monitor (fig. 1 (9)) electrically connected to a primary portion of the transformer.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gabor in view of Wolf.

Gabor discloses a method of generating an electrical discharge for an ionization detector system comprising: providing a first electrode and a second electrode (column 2, lines 58-60), each electrically connected to the ionization system (column 2, lines 58-66); providing a transformer (fig. 1 (2)) electrically that is connected to the first electrode and the second electrode; inputting a DC voltage into the primary portion of the transformer (column 2, lines 29-33); generating a discharge current between the first electrode and the second electrode (column 2, lines 45-60); and monitoring a current input (column 2, lines 38-40).

Gabor does not disclose including a first resistor and a second resistor in a secondary portion of the transformer.

Wolf discloses including a first resistor (17) and a second resistor (16) in a secondary portion of the transformer.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to incorporate the resistors of Wolf into the method of Gabor for the purpose of controlling the voltages on the secondary side of the transformer.

## Allowable Subject Matter

- 5. Claims 1-5, 7-18 and 20 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

  The claims are considered patentable because of the inclusion of the claim limitations: in claim

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1, a conjugated clock input electrically connected to the transformer. In claim 11, generating a

· discharge current having at least a first steady-state current plateau and a second steady-state

current plateau between the first electrode and the second electrode. These limitations are not

taught or suggested by the prior art or record. Claims 1-5 and 7-10 are allowable since they

depend on allowable independent claim 1. Claims 12-18 and 20 are allowable since they depend

on allowable independent claim 11.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Dole whose telephone number is 703-305-7396. The

examiner can normally be reached on Mon. thru Fri. from 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, N. Le can be reached on 703-308-0750. The fax phone numbers for the organization

where this application or proceeding is assigned are 703-872-9318 for regular communications

and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0956.

Supervisory Patent Examiner

Technology Center 2800